Kiliani (O. G. J.) Sterilized datqut in a Convenient and portable form.



Sterilized Catgut in a Convenient and Portable Form.

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Surgery in its present state of development is surely a great science and a great art. But the more elaborate our methods grow, and the better our technique becomes, the more does our success depend upon very small and apparently unimportant details. This is one of the reasons why I venture to bring to your notice to high this little arrangement which is the subject of my paper.

One of the more does our success depend upon very small and apparently unimportant details. This is one of the reasons why I venture to the reason which is preparation to the preparation of the preparation of the operations are expected to heal under one dressing, a great deal more than ever before—eatgut is the material; and it would be used still more if a good many surgeons had not lost faith in the possibility of sterilizing it. How important this question is, is shown by the fact that, for instance, I personally know of eighteen different methods of preparing catgut. There are very likely a great many more, in fact nearly every surgeon has his own method, or at least the "modified" method of somebody eise. Now, it is a well known fact that wherever a great many method, as the preparing of a should like, therefore, to heary your opinion about my like in the sterilized cataly in the condition. 3. How to make it portable in that sterilized condition.

Without entering into particulars concerning other methods, I will briefly describe my own, and we will then see how it answers these three requirements.

Dry catgut, not kept in oil, is put in absolute alcohol for twenty-four hours to remove all moisture. Then it is cut in pieces of two and three yards length, one of which is rolled on a glass rod, and then put in a glass tube open at one end, and with a little hole at the other, through which a short end of catgut is publed. The glass rod ground is a state of the preparature of which is brought up in the course of two hours more to 140 centigrade, 284°F, which is kept up for a whole hour. Another hour is consumed in letting to the cut

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will be needed for an operation; for an extended operation several tubes may be opened in succession; and that then it cannot happen, as it does in other methods, that the remainder of the unused catgut becomes infected. This, of course, only holds good when the unused pieces are thrown away.

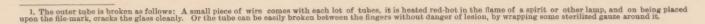
Our bacteriological experience has shown any number of times, and shows every day, that all micro-organisms and their spores are definitely destroyed by the temperature to which the catgut is subjected. It was really entirely unnecessary to prove it again, and I have done so only for the sake of completeness. I have here tubes with pieces of sterilized catgut in the gelatine or agar, where absolutely no cultures are to be seen. Some of them contain catgut as it is in the market and then sterilized, some catgut which I infected with pus or with cultures of staphylococcus pyogenes aureus and citreus, streptococcus, and anthrax, and then sterilized, or a culture except some action of the content of the catgut and inpair its durability, elasticity, etc.? I am fortunately able to give a definite answer to this question.

Reverdin and Benkisser first employed this way of sterilizing catgut, and found out how not to injure the quality in the process. I do not know how much it came into general use, but Schede, surgeon to the new Hamburg State Hospital, had the catgut prepared in that way since 1889, and it was there, during my service in 1890, that I learned how to do it. Since that time I have had the method in constant use for my own work, and I never had reason to complain about it. So the experience of one of the largest hospitals in the world—Schede has six hundred usurgical beds—speaks for it, besides my own experience. Now to the second point. How to keep sterilized catgut sterile. All sorts of ways have been tried to achieve this end, and every one knows the different glass jars and bottles in which the catgut, if it ever becomes to remain the process.

The last point to be investigated is the convenience in carrying aro

on sale.

It gives me great pleasure in conclusion to give credit to Dr. Francis Foerster, whose suggestion was the incentive in my attempt to perfect a portable form of dry-sterilized catgut, which I hope may prove of some practical value to the profession.



Prices of Dr. Kiliani's Dry Sterilized Catgut, in Hermetically Closed Glass Tubes. In 2-yard lengths, No. 2. \$1.70 | In 3-yard lengths, No. 2. \$2.10 ... \$2.25 ... \$2.25 ... \$2.25

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